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L11: Entry 3 of 3

File: USPT

Dec 6, 2005

DOCUMENT-IDENTIFIER: US 6973378 B2

TITLE: In-vehicle control device communicatable with external communication system and in-vehicle LAN

Detailed Description Text (7):

The vehicular I/O module 4 communicates low speed data (slow data) with a control system LAN 21 installed in the vehicle. Furthermore, the vehicular I/O module 4 communicates high speed data (fast data) with an information system LAN 22 installed in the vehicle. The control system LAN 21 is formed by interconnecting various corresponding devices, such as various ECUs, which are involved in vehicle control operation. The information system LAN 22 is formed by interconnecting various corresponding devices, such as an automobile <u>navigation</u> system and a vehicular display device.

Detailed Description Text (48):

In addition to the <u>Bluetooth</u> communication device installation arrangement and/or the GPS receiver installation arrangement, the control module circuit board 13 can have a dedicated wireless LAN communication device installation arrangement, to which a wireless LAN communication device is installed, and/or a dedicated <u>DSRC</u> communication device installation arrangement, to which a DSRC communication device is installed.

CLAIMS:

2. The in-vehicle control device according to claim 1, wherein the control module has a control module circuit board that includes a <u>dedicated radio communication</u> device installation arrangement, which is adapted to receive and to operably connect with a radio communication device.

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DB=PC	GPB, USPT; PLUR=YES; OP=OR		
<u>L11</u>	19 and L10	3	<u>L11</u>
<u>L10</u>	dedicated adj2 (radio adj communication)	44	<u>L10</u>
<u>L9</u>	17 and L8	179	<u>L9</u>
<u>L8</u>	navigation	72501	<u>L8</u>
<u>L7</u>	15 same L6	395	<u>L7</u>
<u>L6</u>	dsrc	529	<u>L6</u>
<u>L5</u>	bluetooth or (short adj range)	44994	<u>L5</u>
DB=USPT; $PLUR=YES$; $OP=OR$			
<u>L4</u>	proximity and L1	0	<u>L4</u>
<u>L3</u>	proxinity and L1	0	<u>L3</u>
<u>L2</u>	short and 11	0	<u>L2</u>
<u>L1</u>	7130743.pn.	1	<u>L1</u>

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DB=PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=YES; OP=OR				
<u>L10</u>	18 and L9	17	<u>L10</u>	
<u>L9</u>	day and time and week	234975	<u>L9</u>	
<u>L8</u>	16 and L7	37	<u>L8</u>	
<u>L7</u>	traffic adj information	13224	<u>L7</u>	
<u>L6</u>	14 and L5	934	<u>L6</u> .	
<u>L5</u>	threshold adj value	212174	<u>L5</u>	
<u>L4</u>	12 and L3	18989	<u>L4</u>	
<u>L3</u>	frequen\$ or often	3498919	<u>L3</u>	
<u>L2</u>	travel same pattern	40493	<u>L2</u>	
<u>L1</u>	travel near pattern	1232	<u>L1</u>	

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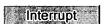
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<u>L20</u>	17 and L19	12	<u>L20</u>	
<u>L19</u>	117 and L18	74	<u>L19</u>	
<u>L18</u>	threshold	714319	<u>L18</u>	
<u>L17</u>	115 and L16	111	<u>L17</u>	
<u>L16</u>	frequency or "often"	3497045	<u>L16</u>	
<u>L15</u>	113 and L14	128	<u>L15</u>	
<u>L14</u>	predict\$	440160	<u>L14</u>	
<u>L13</u>	19 and L12	.174	<u>L13</u>	
<u>L12</u>	travel adj (pattern or history)	1093	<u>L12</u>	
<u>L11</u>	travel adj pattern	742	<u>L11</u>	
<u>L10</u>	18 and L9	17	<u>L10</u>	
<u>L9</u>	day and time and week	234975	<u>L9</u>	
<u>L8</u>	l6 and L7	37	<u>L8</u>	
<u>L7</u>	traffic adj information	13224	<u>L7</u>	
<u>L6</u>	l4 and L5	934	<u>L6</u>	
<u>L5</u>	threshold adj value	212174	<u>L5</u>	
<u>L4</u>	12 and L3	18989	<u>L4</u>	

<u>L3</u>	frequen\$ or often	3498919	<u>L3</u>
<u>L2</u>	travel same pattern	40493	<u>L2</u>
<u>L1</u>	travel near pattern	1232	<u>L1</u>

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